

**PATENT APPLICATION**  
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q88876

Kazumi SHIKUMA

Appl. No.: National Stage Entry of PCT/JP03/16444

Confirmation No.: Unknown

Group Art Unit: Unknown

Filed: July 15, 2005

Examiner: Unknown

For: DOHERTY AMPLIFIER AND METHOD OF COMPENSATING SAME FOR  
DISTORTION CHARACTERISTIC

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

1. Japanese Laid-Open Patent Application Publication No. 2002-124840, published April 26, 2002 (with English abstract).
2. Japanese Unexamined Patent Application Publication No. H07-022852, published January 24, 1995 (with English abstract).
3. Japanese Unexamined Patent Application Publication No. H08-330873, published December 13, 1996 (with English abstract).
4. Japanese Laid-Open Patent Application Publication No. 2001-518731, published October 16, 2001.

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5. Japanese Laid-Open Patent Application Publication No. 2002-510927, published April 9, 2002.
6. Japanese Unexamined Patent Application Publication No. H10-513631, published December 22, 1998.
7. W. H. Doherty, "A New High Efficiency Power Amplifier for Modulated Waves," Proc. IRE, Vol. 24, No. 9, Spt. In 1936.
8. Peter B. Kennington, "High-Linearity RF Power Amplifier Design", P. 351-420, P. 493-506, Artech House, 2000.
9. N. Imai, et al., "Novel Linearizer Using Balanced Circulators and Its Application to Multilevel Digital Radio Systems," IEEE Trans. Microwave Theory and Techniques, Vol. 37, No. 8, August 1989.
10. International Publication No. WO 01/39367, published May 31, 2001.
11. Japanese Unexamined Patent Application Publication No. H11-145734, published May 28, 1999 (with English abstract).
12. Japanese Laid-Open Patent Application Publication No. 2003-037451, published February 7, 2003 (with English abstract).

One copy of each of the listed documents is submitted herewith.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant states that above references 1-6 are discussed within the specification beginning at page 1, lines 22, 23, 24, and 25, and page 2, lines 1 and 3,

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respectively. Additionally, Applicant states that above references 11 and 12 are cited in the International Search Report, issued in the corresponding International Application.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

Respectfully submitted,

  
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WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

Date: July 15, 2005

Substitute for Form 1449 A & B/PTO  <b>INFORMATION DISCLOSURE          STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				Complete if Known <b>10/542288</b>	
				Application Number	National Stage Entry of PCT/JP03/16444
				Confirmation Number	Unknown
				Filing Date	July 15, 2005
				First Named Inventor	Kazumi SHIIKUMA
				Art Unit	Unknown
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	Q88876

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US			
		US			
		US			
		US			
		US			
		US			
		US			
		US			

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
		JP	2002-124840	A	04-26-2002	Mitsubishi Electric Corp	
		JP	H07-022852	A	01-24-1995	Raytheon Co	
		JP	H08-330873	A	12-13-1996	Motorola Inc	
		JP	2001-518731	A	10-16-2001		
		JP	2002-510927	A	04-09-2002		
		JP	H10-513631	A	12-22-1998		
		WO	01/39367	A1	05-31-2001	Telefonaktiebolaget LM Ericsson	
		JP	H11-145734	A	05-28-1999	Harris Corp	
		JP	2003-037451	A	02-07-2003	TRW Inc	

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>	
		W. H. Doherty, "A New High Efficiency Power Amplifier for Modulated Waves," Proc. IRE, Vol. 24, No. 9, Spt. In 1936.		
		Peter B. Kennington, "High-Linearity RF Power Amplifier Design", P. 351-420, P. 493-506, Artech House, 2000.		
		N. Imai, et al., "Novel Linearizer Using Balanced Circulators and Its Application to Multilevel Digital Radio Systems," IEEE Trans. Microwave Theory and Techniques, Vol. 37, No. 8, August 1989.		

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language Translation is attached.